

## **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/977,615  
Source: OICE  
Date Processed by STIC: 10-19-03

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker>**

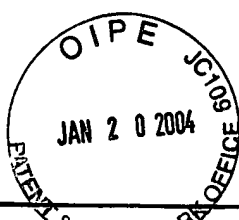
Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name,  
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,  
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,  
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003



# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/977,615

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos  
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length  
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering  
The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII  
    Text  
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length  
Sequence(s)          contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"  
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)         . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)  
Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)  
Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9      Use of n's or Xaa's  
    (NEW RULES)  
Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10    Invalid <213>  
    Response  
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>  
Sequence(s)          missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"  
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n  
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/977,615

DATE: 06/19/2003

TIME: 15:21:03

Input Set : A:\09977615 Sequence Listing.txt

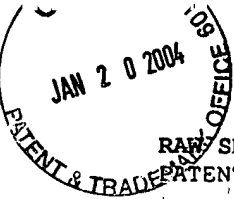
Output Set: N:\CRF4\06192003\I977615.raw

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Grenier, Jennifer  
4 Marshall, David  
5 Prudent, James  
6 Richmond, Craig  
7 Roesch, Eric  
8 Scherrer, Christopher  
9 Sherrill, Christopher  
10 Ptacin, Jerod  
12 <120> TITLE OF INVENTION: SOLID SUPPORT ASSAY SYSTEMS AND METHODS UTILIZING NON-  
NATURAL BASES  
14 <130> FILE REFERENCE: 031403-9012  
16 <140> CURRENT APPLICATION NUMBER: 09/977,615  
17 <141> CURRENT FILING DATE: 2001-10-15  
19 <150> PRIOR APPLICATION NUMBER: 60/240,397  
20 <151> PRIOR FILING DATE: 2000-10-14  
22 <150> PRIOR APPLICATION NUMBER: 60/282,831  
23 <151> PRIOR FILING DATE: 2001-04-10  
25 <150> PRIOR APPLICATION NUMBER: 09/861,292  
26 <151> PRIOR FILING DATE: 2001-05-18  
28 <150> PRIOR APPLICATION NUMBER: 60/293,259  
29 <151> PRIOR FILING DATE: 2001-05-22  
31 <160> NUMBER OF SEQ ID NOS: 156  
33 <170> SOFTWARE: PatentIn version 3.0  
35 <210> SEQ ID NO: 1  
36 <211> LENGTH: 10  
37 <212> TYPE: DNA  
38 <213> ORGANISM: (synthetic oligonucleotide)  
40 <220> FEATURE:  
41 <221> NAME/KEY: modified\_base  
42 <222> LOCATION: (3)..(3)  
43 <223> OTHER INFORMATION: n represents iso-guanine  
46 <220> FEATURE:  
47 <221> NAME/KEY: modified\_base  
48 <222> LOCATION: (6)..(6)  
49 <223> OTHER INFORMATION: n represents iso-guanine  
52 <400> SEQUENCE: 1  
W--> 53 gangtntgtc  
56 <210> SEQ ID NO: 2  
57 <211> LENGTH: 10  
58 <212> TYPE: DNA  
59 <213> ORGANISM: (synthetic oligonucleotide)  
61 <220> FEATURE:  
62 <221> NAME/KEY: modified\_base  
63 <222> LOCATION: (2)..(2)

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

See item # 10 on Error  
Summary Sheet



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/977,615

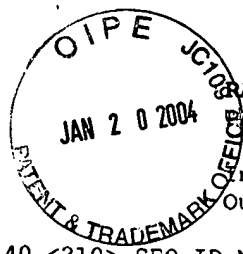
DATE: 06/19/2003

TIME: 15:21:03

Input Set : A:\09977615 Sequence Listing.txt

Output Set : N:\CRF4\06192003\I977615.raw

64 <223> OTHER INFORMATION: n represents iso-guanine  
67 <220> FEATURE:  
68 <221> NAME/KEY: modified\_base  
69 <222> LOCATION: (6)..(6)  
70 <223> OTHER INFORMATION: n represents iso-guanine  
73 <400> SEQUENCE: 2  
W--> 74 **cngtttttcc** 10  
77 <210> SEQ ID NO: 3  
78 <211> LENGTH: 10  
79 <212> TYPE: DNA  
80 <213> ORGANISM: synthetic oligonucleotide — See page 1  
82 <220> FEATURE:  
83 <221> NAME/KEY: modified\_base  
84 <222> LOCATION: (3)..(3)  
85 <223> OTHER INFORMATION: n represents iso-guanine  
88 <220> FEATURE:  
89 <221> NAME/KEY: modified\_base  
90 <222> LOCATION: (7)..(7)  
91 <223> OTHER INFORMATION: n represents iso-guanine  
94 <400> SEQUENCE: 3  
W--> 95 **ggntttgntag** 10  
98 <210> SEQ ID NO: 4  
99 <211> LENGTH: 10  
100 <212> TYPE: DNA  
101 <213> ORGANISM: synthetic oligonucleotide  
103 <220> FEATURE:  
104 <221> NAME/KEY: modified\_base  
105 <222> LOCATION: (4)..(4)  
106 <223> OTHER INFORMATION: n represents iso-guanine  
109 <220> FEATURE:  
110 <221> NAME/KEY: modified\_base  
111 <222> LOCATION: (6)..(6)  
112 <223> OTHER INFORMATION: n represents iso-guanine  
115 <400> SEQUENCE: 4  
W--> 116 **cttngntetc** 10  
119 <210> SEQ ID NO: 5  
120 <211> LENGTH: 10  
121 <212> TYPE: DNA  
122 <213> ORGANISM: synthetic oligonucleotide  
124 <220> FEATURE:  
125 <221> NAME/KEY: modified\_base  
126 <222> LOCATION: (2)..(2)  
127 <223> OTHER INFORMATION: n represents iso-guanine  
130 <220> FEATURE:  
131 <221> NAME/KEY: modified\_base  
132 <222> LOCATION: (6)..(6)  
133 <223> OTHER INFORMATION: n represents iso-guanine  
136 <400> SEQUENCE: 5  
W--> 137 **cntcangaac** 10



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/977,615

DATE: 06/19/2003

TIME: 15:21:03

Input Set : A:\09977615 Sequence Listing.txt

Output Set: N:\CRF4\06192003\I977615.raw

140 <210> SEQ ID NO: 6  
141 <211> LENGTH: 10  
142 <212> TYPE: DNA  
143 <213> ORGANISM: (synthetic oligonucleotide)  
145 <220> FEATURE:  
146 <221> NAME/KEY: modified\_base  
147 <222> LOCATION: (5)..(5)  
148 <223> OTHER INFORMATION: n represents iso-guanine  
151 <220> FEATURE:  
152 <221> NAME/KEY: modified\_base  
153 <222> LOCATION: (8)..(8)  
154 <223> OTHER INFORMATION: n represents iso-guanine  
157 <400> SEQUENCE: 6

W--&gt; 158 gtagntangc

10

161 <210> SEQ ID NO: 7  
162 <211> LENGTH: 10  
163 <212> TYPE: DNA  
164 <213> ORGANISM: (synthetic oligonucleotide) - see page 1  
166 <220> FEATURE:  
167 <221> NAME/KEY: modified\_base  
168 <222> LOCATION: (4)..(4)  
169 <223> OTHER INFORMATION: n represents iso-guanine  
172 <220> FEATURE:  
173 <221> NAME/KEY: modified\_base  
174 <222> LOCATION: (6)..(6)  
175 <223> OTHER INFORMATION: n represents iso-guanine  
178 <400> SEQUENCE: 7

W--&gt; 179 ggangntaac

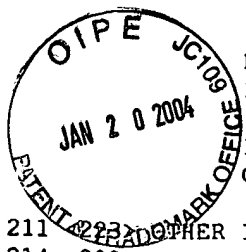
10

182 <210> SEQ ID NO: 8  
183 <211> LENGTH: 10  
184 <212> TYPE: DNA  
185 <213> ORGANISM: (synthetic oligonucleotide)  
187 <220> FEATURE:  
188 <221> NAME/KEY: modified\_base  
189 <222> LOCATION: (2)..(2)  
190 <223> OTHER INFORMATION: n represents iso-guanine  
193 <220> FEATURE:  
194 <221> NAME/KEY: modified\_base  
195 <222> LOCATION: (7)..(7)  
196 <223> OTHER INFORMATION: n represents iso-guanine  
199 <400> SEQUENCE: 8

W--&gt; 200 cngtatngtg

10

203 <210> SEQ ID NO: 9  
204 <211> LENGTH: 10  
205 <212> TYPE: DNA  
206 <213> ORGANISM: (synthetic oligonucleotide)  
208 <220> FEATURE:  
209 <221> NAME/KEY: modified\_base  
210 <222> LOCATION: (4)..(4)



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/977,615

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Input Set : A:\09977615 Sequence Listing.txt

Output Set: N:\CRF4\06192003\I977615.raw

211 <223> OTHER INFORMATION: n represents iso-guanine  
214 <220> FEATURE:  
215 <221> NAME/KEY: modified\_base  
216 <222> LOCATION: (10)..(10)  
217 <223> OTHER INFORMATION: n represents iso-guanine  
220 <400> SEQUENCE: 9

W--&gt; 221 catnggtang

10

224 &lt;210&gt; SEQ ID NO: 10

225 &lt;211&gt; LENGTH: 10

226 &lt;212&gt; TYPE: DNA

227 &lt;213&gt; ORGANISM: synthetic oligonucleotide

229 &lt;220&gt; FEATURE:

230 &lt;221&gt; NAME/KEY: modified\_base

231 &lt;222&gt; LOCATION: (5)..(5)

232 &lt;223&gt; OTHER INFORMATION: n represents iso-guanine

235 &lt;220&gt; FEATURE:

236 &lt;221&gt; NAME/KEY: modified\_base

237 &lt;222&gt; LOCATION: (9)..(9)

238 &lt;223&gt; OTHER INFORMATION: n represents iso-guanine

241 &lt;400&gt; SEQUENCE: 10

W--&gt; 242 gattntcgnc

10

245 &lt;210&gt; SEQ ID NO: 11

246 &lt;211&gt; LENGTH: 10

247 &lt;212&gt; TYPE: DNA

248 &lt;213&gt; ORGANISM: synthetic oligonucleotide

250 &lt;220&gt; FEATURE:

251 &lt;221&gt; NAME/KEY: modified\_base

252 &lt;222&gt; LOCATION: (4)..(4)

253 &lt;223&gt; OTHER INFORMATION: n represents iso-guanine

256 &lt;220&gt; FEATURE:

257 &lt;221&gt; NAME/KEY: modified\_base

258 &lt;222&gt; LOCATION: (6)..(6)

259 &lt;223&gt; OTHER INFORMATION: n represents iso-guanine

262 &lt;400&gt; SEQUENCE: 11

W--&gt; 263 gttnangacc

10

266 &lt;210&gt; SEQ ID NO: 12

267 &lt;211&gt; LENGTH: 10

268 &lt;212&gt; TYPE: DNA

269 &lt;213&gt; ORGANISM: synthetic oligonucleotide

271 &lt;220&gt; FEATURE:

272 &lt;221&gt; NAME/KEY: modified\_base

273 &lt;222&gt; LOCATION: (2)..(2)

274 &lt;223&gt; OTHER INFORMATION: n represents iso-guanine

277 &lt;220&gt; FEATURE:

278 &lt;221&gt; NAME/KEY: modified\_base

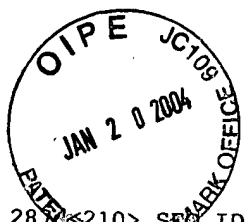
279 &lt;222&gt; LOCATION: (6)..(6)

280 &lt;223&gt; OTHER INFORMATION: n represents iso-guanine

283 &lt;400&gt; SEQUENCE: 12

W--&gt; 284 cngaangatc

10



RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/977,615

DATE: 06/19/2003

TIME: 15:21:03

Input Set : A:\09977615 Sequence Listing.txt

Output Set: N:\CRF4\06192003\I977615.raw

287 <210> SEQ ID NO: 13  
288 <211> LENGTH: 10  
289 <212> TYPE: DNA  
290 <213> ORGANISM: synthetic oligonucleotide  
292 <220> FEATURE:  
293 <221> NAME/KEY: modified\_base  
294 <222> LOCATION: (4)..(4)  
295 <223> OTHER INFORMATION: n represents iso-guanine  
298 <220> FEATURE:  
299 <221> NAME/KEY: modified\_base  
300 <222> LOCATION: (9)..(9)  
301 <223> OTHER INFORMATION: n represents iso-guanine  
304 <400> SEQUENCE: 13

W--> 305 caantacgnc

308 <210> SEQ ID NO: 14  
309 <211> LENGTH: 10  
310 <212> TYPE: DNA  
311 <213> ORGANISM: synthetic oligonucleotide - See page 1  
313 <220> FEATURE:  
314 <221> NAME/KEY: modified\_base  
315 <222> LOCATION: (4)..(4)  
316 <223> OTHER INFORMATION: n represents iso-guanine  
319 <220> FEATURE:  
320 <221> NAME/KEY: modified\_base  
321 <222> LOCATION: (8)..(8)  
322 <223> OTHER INFORMATION: n represents iso-guanine  
325 <400> SEQUENCE: 14

10

W--> 326 cggnatanac

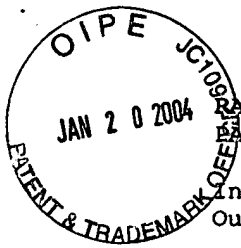
329 <210> SEQ ID NO: 15  
330 <211> LENGTH: 10  
331 <212> TYPE: DNA  
332 <213> ORGANISM: synthetic oligonucleotide  
334 <220> FEATURE:  
335 <221> NAME/KEY: modified\_base  
336 <222> LOCATION: (2)..(2)  
337 <223> OTHER INFORMATION: n represents iso-guanine  
340 <220> FEATURE:  
341 <221> NAME/KEY: modified\_base  
342 <222> LOCATION: (6)..(6)  
343 <223> OTHER INFORMATION: n represents iso-guanine  
346 <220> FEATURE:  
347 <221> NAME/KEY: modified\_base  
348 <222> LOCATION: (7)..(7)  
349 <223> OTHER INFORMATION: n represents iso-guanine  
352 <400> SEQUENCE: 15

10

W--> 353 gnaaannagg

356 <210> SEQ ID NO: 16  
357 <211> LENGTH: 10  
358 <212> TYPE: DNA

10



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/977,615

DATE: 06/19/2003  
TIME: 15:21:04

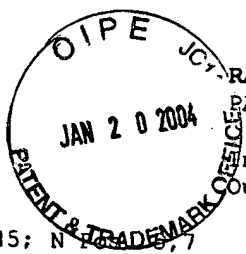
Input Set : A:\09977615 Sequence Listing.txt  
Output Set: N:\CRF4\06192003\I977615.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 3,6  
Seq#:2; N Pos. 2,6  
Seq#:3; N Pos. 3,7  
Seq#:4; N Pos. 4,6  
Seq#:5; N Pos. 2,6  
Seq#:6; N Pos. 5,8  
Seq#:7; N Pos. 4,6  
Seq#:8; N Pos. 2,7  
Seq#:9; N Pos. 4,9  
Seq#:10; N Pos. 5,9  
Seq#:11; N Pos. 4,6  
Seq#:12; N Pos. 2,6  
Seq#:13; N Pos. 4,9  
Seq#:14; N Pos. 4,8  
Seq#:15; N Pos. 2,6,7  
Seq#:16; N Pos. 4,8,9  
Seq#:17; N Pos. 2,6,9  
Seq#:18; N Pos. 3,6  
Seq#:19; N Pos. 3,4,7  
Seq#:20; N Pos. 3,6  
Seq#:21; N Pos. 5,8,9  
Seq#:22; N Pos. 5,7  
Seq#:23; N Pos. 5,8  
Seq#:24; N Pos. 5,8  
Seq#:25; N Pos. 5,7,8  
Seq#:26; N Pos. 2,7  
Seq#:27; N Pos. 2,4,9  
Seq#:28; N Pos. 2,3,7  
Seq#:29; N Pos. 5,8  
Seq#:30; N Pos. 5,7  
Seq#:31; N Pos. 3,7  
Seq#:32; N Pos. 4,8  
Seq#:33; N Pos. 4,9  
Seq#:34; N Pos. 4,7,9  
Seq#:35; N Pos. 2,7  
Seq#:36; N Pos. 3,7  
Seq#:37; N Pos. 2,7  
Seq#:38; N Pos. 4,9  
Seq#:39; N Pos. 3,4,9  
Seq#:40; N Pos. 2,6  
Seq#:41; N Pos. 2,6,9  
Seq#:42; N Pos. 3,6  
Seq#:43; N Pos. 4,8  
Seq#:44; N Pos. 5,8



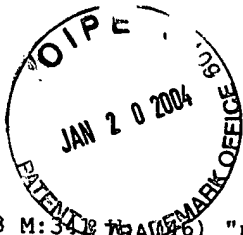


RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/977,615

DATE: 06/19/2003  
TIME: 15:21:04

Input Set : A:\09977615 Sequence Listing.txt  
Output Set: N:\CRF4\06192003\I977615.raw

Seq#:45; N Pos. 2,7  
Seq#:46; N Pos. 4,8  
Seq#:47; N Pos. 2,7  
Seq#:48; N Pos. 3,6  
Seq#:49; N Pos. 3,7  
Seq#:50; N Pos. 3,4,9  
Seq#:51; N Pos. 2,7



# VERIFICATION SUMMARY

PATENT APPLICATION: US/09/977,615

DATE: 06/19/2003

TIME: 15:21:04

Input Set : A:\09977615 Sequence Listing.txt

Output Set: N:\CRF4\06192003\I977615.raw

L:53 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:74 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:95 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:116 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:137 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:158 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:179 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:200 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:221 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:242 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:263 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:284 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:305 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:326 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:353 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:380 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:407 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:428 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:455 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:476 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:503 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:524 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:545 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
L:566 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:593 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:614 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0  
L:641 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:668 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
L:689 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:710 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:731 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:752 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
L:773 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
L:800 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:821 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0  
L:842 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0  
L:863 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:884 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0  
L:911 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0  
L:932 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
L:959 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0  
L:980 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0  
L:1001 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0  
L:1022 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0  
L:1043 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0  
L:1064 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0  
L:1085 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0  
L:1106 M:341 W:(46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/977,615

DATE: 06/19/2003

TIME: 15:21:04

Input Set : A:\09977615 Sequence Listing.txt  
Output Set: N:\CRF4\06192003\I977615.raw

L:1127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0  
L:1154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0

